Docket No.: N.C. 84,598

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants

Singh et al.

Appl. No.

Not yet assigned

Filed

On even date herewith

Title

CATALYTIC SURFACES FOR ACTIVE PROTECTION FROM

TOXINS

Art Unit

Not yet assigned

Examiner

Not yet assigned

Honorable Assistant Commissioner for Patents Washington, DC 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

Applicants wish to advise the Patent and Trademark Office of the information listed on the attached Form PTO/SB/08 considered during the preparation of the above-identified application. A copy of each of the references listed is enclosed.

Kindly charge any additional fees due, or credit overpayment of fees, to Deposit Account No. 50-0281.

Prepared by:

Rebecca L. Forman

Reg. No. 50,452

(202) 404-1554

Respectfully submitted,

John J. Karasek

Reg. No. 36,182

Associate Counsel (Patents) Naval Research Laboratory

4555 Overlook Avenue, S.W. Washington, D.C. 20375-5325

(202) 404-1552

Please type	a pius	sign (+)	inside	this box	\rightarrow	4
	-					F 1"

PTO/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Ornice: U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

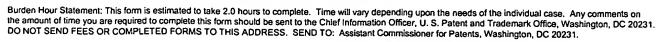
Substitu	ute for form 1449A/PTO			Complete if Known			
11 IE			0.00	Application Number	Not yet assigned		
	ORMATION I			Filing Date	On even date herewith		
STA	ATEMENT BY	'Α	PPLICANT	First Named Inventor	Alok Singh		
				Group Art Unit	Not yet assigned		
	(use as many sheet	s as	necessary)	Examiner Name	Not yet assigned		
Sheet	1	of	2	Attorney Docket Number	84,598		

				U.S. PATENT DOCU	MENTS	
Examiner Initials*	Cite No.1	U.S. Patent Number	Kind Code ²	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		5,663,387		Singh	09-02-1997	
		6,469,145		Rastogi et al.	10-22-2002	
		6,080,566		Cheng et al.	06-27-2000	
					 	

				FORE	IGN PATENT DOCUMENTS	3		
Examiner	Cite	F	oreign Patent Doo	cument	Name of Patentee or	Date of Publication of	Pages, Columns, Lines.	T
Examiner Initials*	No.1	Office ³	Number ⁴	Kind Code ⁵ (if known)	Applicant of Cited Document	Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear	T6
				\longrightarrow	······································			
·								
						<u> </u>		
		 				<u> </u>		\bot
						<u> </u>		\bot
						 		, i
		 -		-++				+
-		 				 		+

Examiner	Date
Signature	Considered
	Osticiacies

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.





^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Please type a plus sign (+) inside this box	\rightarrow	↓ ¯
---	---------------	------------

PTO/SB/08B (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitu	ute for form 1449B/PTO		Co	Complete if Known				
			Application Number	Not yet assigned				
INF	ORMATION	DISCLOSURE	Filing Date	On even date herewith				
STA	TEMENT B'	Y APPLICANT	First Named Inventor	Alok Singh				
•		7	Group Art Unit	Not yet assigned				
	(use as many she	eets as necessary)	Examiner Name	Not yet assigned				
heet	2	of 2	Attorney Docket Number	84,598				

	T	OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the	Т
Examiner nitials*	Cite No.1	item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	τ
		GERALDINE F. DREVON, KARSTEN DANIELMEIER, WILLIAM FEDERSPIEL, DONNA B. STOLZ, DOUGLAS A. WICKS, POLI C. YU & ALAN J. RUSSELL, "High-Activity Enzyme-Polyurethane Coatings," Biotech. Bioeng., Vol. 79, No. 7, 785-794 (2002)	
,,,		GERALDINE F. DREVON & ALAN J. RUSSELL, "Irreversible Immobilization of Disopropylfluorophosphatase in Polyurethane Polymers," Biomacromolecules, Vol. 1, No. 4, 571-576 (2000)	
		GERO DECHER, "Fuzzy Nanoassemblies: Toward Layered Polymeric Multicomposites," Science, Vol. 277, 1232-1237 (1997)	
		STEPHAN T. DUBAS & JOSEPH B. SCHLENOFF, "Swelling and Smoothing of Polyelectrolyte Multilayers by Salt," Langmuir, 17, 7725-7727 (2001)	
		YURI LVOV, ALEXEI A. ANTIPOV, ARIF MAMEDOV, HELMUTH MOHWALD & GLEB B. SUKHORUKOV, "Urease Encapsulation in Nanoorganized Microshells," Nano Lett., Vol. 1, No. 3, 125-128 (2001)	
		STEVEN L. REGEN, JAE-SUP SHIN, JAMES F. HAINFELD & JOSEPH S. WALL, "Ghost Vesicles," J. Am. Chem. Soc., 106, 5756-5757 (1984)	
		JOHN P. SANTOS, ERIC R. WELSH, BRUCE P. GABER & ALOK SINGH, "Polyelectrolyte-Assisted Immobilization of Active Enzymes on Glass Beads," Langmuir, 17, 5361-5367 (2001)	
		YONGWOO LEE, IVAN STANISH, VIPIN RASTOGI, TU-CHEN CHENG & ALOK SINGH, "Sustained Enzyme Activity of Organophosphorus Hydrolase in Polymer Encased Multilayer Assemblies," Langmuir, 19, 1330-1336 (2003)	
			<u> </u>
	L		_
Examine	-	Date	

Signature Considered *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not

considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.